

SCALA

PROFESSIONAL ANTENNA SYSTEMS FOR
BROADCAST AND COMMUNICATIONS

The Scala TY-900 is a rugged broadband yagi antenna specifically designed for professional fixed-station applications in the 890–960 MHz band.

The TY-900 is fabricated of 6061/T6 aluminum rod and seamless drawn pipe, anodized for maximum reliability and corrosion resistance. The hardware and fastenings are stainless steel. The internal balun, coax feed and connector are sealed in a foam potting system to prevent moisture penetration and assure long service life in severe environmental conditions. The heavy aluminum mounting casting allows installation for V or H polarization.

Specifications:

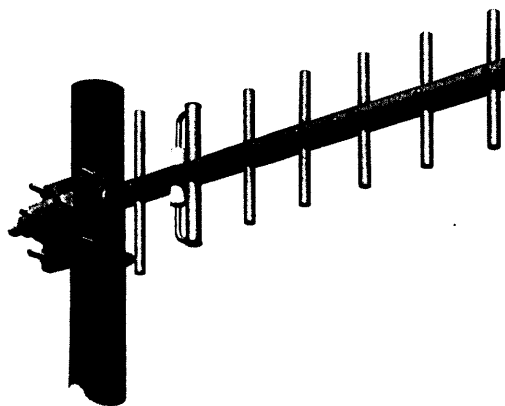
Frequency range	890–960 MHz (broadband)
Gain	10 dBd
Impedance	50 ohms
VSWR	< 1.5:1 maximum (1.35:1 typical)
Polarization	Horizontal or vertical
Front-to-back ratio	>20 dB
Maximum input power	100 watts
H-plane beamwidth	48 degrees (half-power)
E-plane beamwidth	40 degrees (half-power)
Termination	N female
Weight	3 lb (1.4 kg)
Dimensions	23 x 7 inches (584 x 178 mm)
Equivalent flat plate area	0.31 ft ² (0.03 m ²)
Wind survival rating	150 mph (240 kph)
Shipping dimensions	24 x 16 x 4 inches (610 x 406 x 102 mm)
Shipping weight	5.0 lb (2.3 kg)
Mounting	For masts of 1.25 to 2.375 inch (32 to 60 mm) OD.

See reverse for order information.

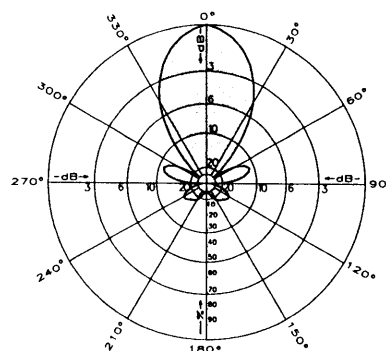
SCALA ELECTRONIC CORPORATION

Post Office Box 4580 Phone: (541) 779-6500
Medford, OR 97501 (USA) Fax: (541) 779-3991
<http://www.scala.net>

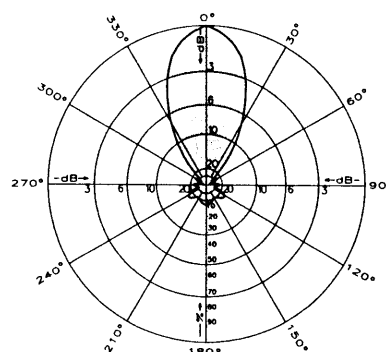
TY-900 YAGI ANTENNA 10 dBd gain 890–960 MHz (broadband)



(Shown vertically polarized)



H-plane
Horizontal pattern – V-polarization
Vertical pattern – H-polarization



E-plane
Horizontal pattern – H-polarization
Vertical pattern – V-polarization

Exhibit 4 (Obverse)

Mounting Hardware

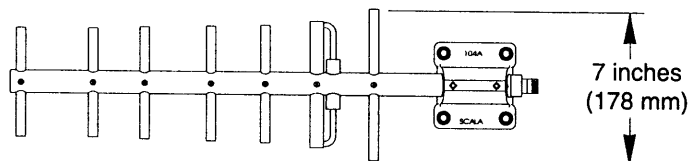
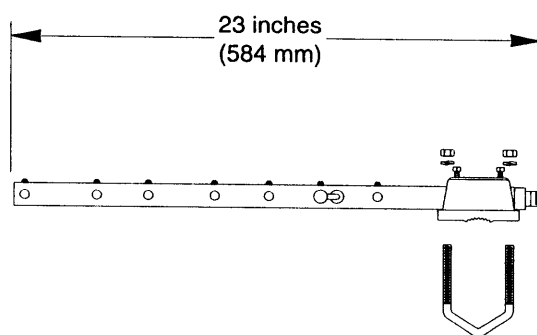
SCALA

TY-900

YAGI ANTENNA

10 dBd gain

890–960 MHz (broadband)



Order Information:

Model	Stock Code
TY-900	91752-004

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All specifications are subject to change without notice

Exhibit 4 (Reverse)